

Development of new refrigerants: Statement CO2

Renningen, November 2016

Dear Sir or Madam,

in regards of the current market developments for new refrigerants we would like to share the following statement with you:

As an alternative refrigerant, i.e. GWP <150, we have taken the decision to go for natural refrigerant carbon dioxide (CO2).

We are currently not actively developing R1234yf AC systems. The reason is the risk management in case of hazard and fire. When R1234yf gets in contact with hot surfaces or is submitted to fire the reaction products are highly toxic and can kill people.

We would definitely decline requests for systems using R1234yf if the refrigerant charge of the system is higher than 500gr of R1234yf. For systems with less than 500gr refrigerant charge per vehicle, extensive measures to minimize the risk need to be developed and agreed with the customer.

The technical and thermal aspect is manageable. The COP will decrease (by about 10%).

An Eberspächer Süttrak AC system originally designed and released for R134 cannot be filled with R1234yf, otherwise it will lose its homologation.

We are following the HFO development closely and might review the position above along with new HFO product releases.

If you have any further question, please feel free to contact us or your direct sales person.

Kind regards,

Eberspächer Süttrak GmbH & Co. KG.
Renningen